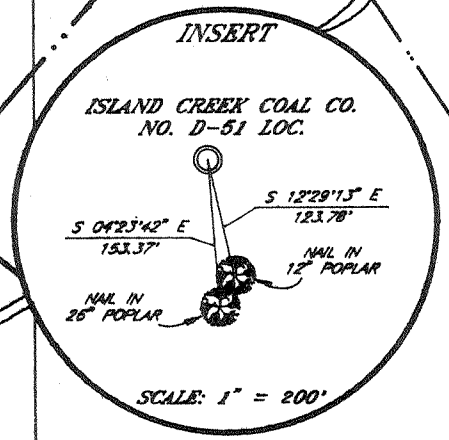


I.C.C.Co. TO AGIPCOAL
ROTATION
-00° 24' 20"

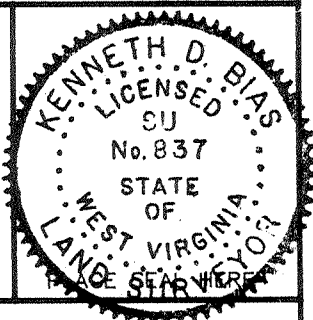
NOTE: NO EXISTING WELLS
WITHIN 2400'



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF
ACCURACY 1 : 2500
PROVEN SOURCE OF
ELEVATION N.G.S. BM-Z-142
727.29' ELEV

I THE UNDERSIGNED, HEREBY CERTIFY THAT
THIS PLAT IS CORRECT TO THE BEST OF MY
KNOWLEDGE AND BELIEF AND SHOWS ALL THE
INFORMATION REQUIRED BY LAW AND THE
REGULATIONS ISSUED AND PRESCRIBED BY
THE DEPARTMENT OF ENERGY
(SIGNED) *Kenneth D. Bias*
R.P.E. _____ L.L.S. 837-SU



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE MAY 04, 19 92
OPERATOR'S WELL NO. ISLAND CREEK COAL CO.
API WELL NO. D-51, S.N. 140621

47 - 59 - 1177
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 1449.09' WATER SHED EVANS FERRELL BRANCH OF PIGEON CREEK OF TUG FORK RIVER
DISTRICT LEE 4 COUNTY MINGO
QUADRANGLE DELBARTON *Mechawan NC*
SURFACE OWNER GEORGIA PACIFIC CORP. U.T. TR. 13 ACREAGE 128 AC. P/O 25,000
OIL & GAS ROYALTY OWNER ISLAND CREEK COAL CO. LEASE ACREAGE 35,053.47'
LEASE NO. 80662
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW
FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5,110'
WELL OPERATOR ASHLAND EXPLORATION, INC. DESIGNATED AGENT BOBBY E. WIDENER
ADDRESS P.O. BOX 391 ASHLAND, KY 41114 ADDRESS P.O. BOX 379 BRENTON, WV 24818
DEEP WELL 6-6 Meagan (265)

FORM 100-6

COUNTY NAME PERMIT

RECEIVED

WR-35

WV Division of Environmental Protection

MAY 12 1993

Permitting Office of Oil & Gas

20-Nov-92 API #47-59-01177

State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: GEORGIA-PACIFIC CORP.

Operator Well No.: D-51-S-140621

LOCATION: Elevation: 1449.09

Quadrangle: DELBARTON

District: LEE

County: MINGO

Latitude: 7250 Feet South of 37 Deg. 42 Min. 30 Sec.

Longitude: 10300 Feet West of 82 Deg. 7 Min. 30 Sec.

Company: ASHLAND EXPLORATION, INC. P. O. BOX 391, A1-6 ASHLAND, KY 41114-0391

Agent: B. E. WIDENER

Inspector: OFIE HELMICK

Permit Issued: 11/23/92
Well work Commenced: 12/13/92
Well work Completed: 04/23/93
Verbal Plugging:
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 5139
Fresh water depths (ft) None Noted

Salt water depths (ft) 1590

Is coal being mined in area (Y/N)? N
Coal Depths (ft): Open Mine @ 620'
226-228, 256-258, 312-316, 365-368

Table with 4 columns: Casing & Tubing Size, Used in Drilling, Left in Well, Cement Fill Up Cu. Ft. Rows include 16", 11-3/4", 8-5/8", 5-1/2", and 2-3/8" @ 4819'.

OPEN FLOW DATA

Producing formation Dev. Shale/Berea Pay zone depth (ft) 3504-5054
Gas: Initial open flow 0 MCF/d Oil: Initial open flow -- Bbl/d
Final open flow 1198 MCF/d Oil: Final open flow -- Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock pressure 740# psig (surface pressure) after 72 Hours

Second producing formation -- Pay zone depth (ft)
Gas: Initial open flow -- MCF/d Oil: Initial open flow -- Bbl/d
Final open flow -- MCF/d Oil: Final open flow -- Bbl/d
Time of open flow between initial and final tests -- Hours
Static rock Pressure -- psig (surface pressure) after -- Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1. DETAILS OF PERFORATED INTERVALS, FRACTURING OF STIMULATING, PHYSICAL CHANGE, ETC. 2.) THE WELL LOG WHICH IS A SYSTEMATIC DETIALED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: ASHLAND EXPLORATION, INC.

By: James L. Stephens James L. Stephens, Eng. Tech.

Date: 5/4/93

05117
 0004
 0000

<u>Formation or Rock Type</u>	<u>Top</u>	<u>Base</u>
Sand and Shale (base Lee Sand)	0	2032
Pennington	2032	2595
U. Maxton	2199	2226
M. Maxton	2372	2504
Little Lime	2595	2650
Big Lime	2650	2889
Borden	2889	3466
Sunbury Shale	3466	3503
Berea	3503	3568
Devonian Shale	3568	5115
Onondaga Ls.	5115	T.D.

Drillers TD 5139 ✓
 Loggers TD 5134
 85/8 and 113/4 cmt't to surface on primary job.

PF -461
 DFT-830

Perf Rhinestreet Shale using ⁸³⁰.39 10 gram chgs. 1 spf sf @ 5054, 5046, 5038, 5026, 5017, 5014, 5006, 5003, 4982, 4978, 4974, 4972, 4957. N₂ frac Rhinestreet using 200 gal. 7½% HCl - Fe acid & 800,000 SCF N₂ @ 80000 SCF/min. BDP = 2860#. ATP = 4100#. MTP = 4360#. ISIP = 3111#.

Perf. L. Huron using SF HCG ⁸¹³ 1 SPF: 4655, 4640, 4631, 4620, 4616, 4603, 4599, 4582, 4575, 4562, 4550, 4544, 4539, 4513, 4500, 4480, 4452, 4430, 4421, 4416, 4386, 4375, 4312, 4304 N₂ frac L. Huron using 400 gal. 7½% HCl - Fe acid & 901,000 SCF N₂ @ 98000 SCF/min. BDP = 2860#. ATP = 2800#. MTP = 3170#. ISIP = 1800#.

Perf. U. Dev/Berea using SF HCG ISPF: 3931, 3904, ⁴⁰⁴3891, 3881, 3868, 3852, 3840, 3818, 3806, 3793, 3780, 3770, 3759, 3749, 3693, 3670, 3663, 3642, ~~3565, 3553, 3550, 3506, 3504~~ N₂ frac U. Dev/Berea using 500 gal. 8% HCl-Fe acid, 950,000 SCF N₂ @ 100,000 SCF/min. BDP = 2480#. ATP = 3050#. MTP = 3100#. ISIP = 1900#. Perf L. Dev. Shale w/ 3½" HCG .39 jets SF @ 4584, 4573, 4565, 4548, 4545, 4524, 4519, 4514, 4503, 4500, 4481, 4478, 4428, 4400, 4380, 4346, 4339, 4324, 4288, 4286 (20 total shots). Pump 350 gal 7½% HCl-Fe acid and N₂ frac L. Dev. Shale using 860,000 scf N₂ @ 107,300 scf/min. BD 3415, ATP 3314, MTP 3415, ISIP 1809, TF 9 bbls. HLS

³⁸⁷ Perf U. Dev/Berea w/ 3½" HCG .39 jets SF @ ⁴⁰⁴3687, 3684, 3605, 3603, ³⁹⁵3506, ³⁸⁷3492, 3490, 3461, 3458, 3451, 3433, 3420, 3396, 3373, 3322, 3308, 3301, 3298, 3284, 3282 (20 total shots). HOWCO RBP set @ 3730. Pump 450 gal HCl-Fe acid. N₂ frac U. Dev/Berea using 860,000 scf N₂. BD 4236, ATP 2910, ATP 106,300 scf/min. MTP 4236, ISIP 1351, TF 12 bbls.

³⁴⁵ Perf Big Lime w/ 4" HCG 2SPF 8H/2723-2726, 10H/2700-2704, 8H/2656-2660, 6H/2633-2635, 10H/2580-2584, 6H/2571-2573, 6H/2558-2560 (54 shots total). Foam frac Big Lime 4-16 ppg ramp @ 75Q foam using 52,500# 20/40 sand; 270,000 scf N₂ @ 9243 scf/min, and 1000 gal 16% HCl-Fe acid. BD 2465, ATP 1368, ATR @ 20 BPM foam, MTP 2465, ISIP 1356, TF 140 bbls.

EL-511

059-1177

NOV 0

Permitting
 Operator of Oil & Gas

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

Issued 11/23/92

Expires 11/23/94

2750 (4) 321

- 1) Well Operator: Ashland Exploration, Inc.
 Island Creek Coal Co.
- 2) Operator's Well Number: D-51, Serial #140621 3) Elevation: 1449.1
- 4) Well type: (a) Oil___/ or Gas X/
 (b) If Gas: Production X/ Underground Storage___/
 Deep___/ Shallow X/
- 5) Proposed Target Formation(s): Devonian Shale
- 6) Proposed Total Depth: 5110'KB feet
- 7) Approximate fresh water strata depths: 183', 331', 413'
- 8) Approximate salt water depths: 1346', 1775', 2010', 2025'
 Upper Cedar Grove - Mined Out at 549'
- 9) Approximate coal seam depths: Lowest Seam is at a depth of 739'
- 10) Does land contain coal seams tributary to active mine? Yes___/ No X/
- 11) Proposed Well Work: Drill and Stimulate New Well
- 12)

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE FOR DRILLING	FOOTAGE LEFT IN WELL	CEMENT (cu.ft.)
Conductor	16	LS	39.61	30	30	CTS
Fresh Water						38CSR18-11.3 38CSR18-11.2-2
Coal	11 3/4	H-40	42.0	609	609	CTS
Intermediate	8 5/8	J-55	24.0	2079	2079	CTS
Production	5 1/2	J-55	15.5	5110	5110	AS NEEDED
Tubing	1.9	J-55	2.76	-	5000	SIPHON
Liners						38CSR18-11.1

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

56743
36

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Surety Blanket Agent
 (Type)

RECEIVED

WV Division of
Environmental Protection

NOV 06 92

Permitting
Office of Oil & Gas

- 1) Date: November 3, 1992
- 2) Operator's well number
Island Creek Coal Co. #D-51, Serial #140621
- 3) API Well No: 47 - 059 - 1177
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- | | |
|--|---|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Georgia-Pacific Corp.</u>
Address <u>General Delivery</u>
<u>Wyoming, WV 24898</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>N/A</u>
Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>Island Creek Coal Company</u>
Address <u>P.O. Box 840</u>
<u>Holden, WV 25625</u></p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name <u>Hobet Mining, Inc.</u>
Address <u>P.O. Box 305</u>
<u>Madison, WV 25130</u></p> |
| <p>6) Inspector <u>Ofie Helmick</u>
Address <u>P.O. Box 218</u>
<u>Fanrock, WV 24834</u>
Telephone (304)- <u>732-9135</u></p> | |

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

 X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 2 on the above named parties, by:

- Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Ashland Exploration, Inc.
 By: W. Mark Parks *W. Mark Parks* **WMC**
 Its: Operations Manager
 Address P.O. Box 391
Ashland, KY 41114
 Telephone 606-329-5989

Subscribed and sworn before me this 3rd day of November, 1992

Dick W. Santa

Notary Public

My commission expires November 23, 1994